GPS Motorcycle / vehicle / Personal Tracker

User manual

(Internal GSM/GPS Antenna)

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The device is used for 12V or 24V vehicles ,boat , Motorcycle etc. It has function as following: illegal movement alarm ,cut power alarm, Stop engine remotely .Mini GPS tracker .

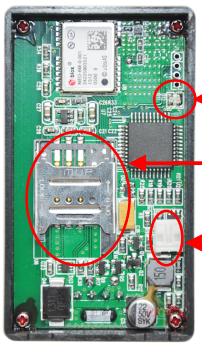
Work Voltage: (DC:9V-36V)

Communication: GSM/GPRS

Work Voltage：(Support DC：100V customized)

1.1 product pictures

GPS antenna side

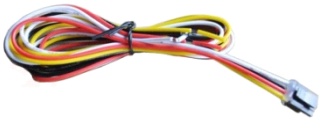


GSM/GPS LED

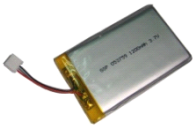
SIM

backup battery

1.2 accessories



Power cable (standard)



Backup battery (optional)

relay (optional)

1.3 Technical parameters

Items	parameters	Remarks
Work voltage	DC 9~36V	
Operation Temp	-20℃ to +70℃	
Storage Temp.	-40℃ to +85℃	
Relative Humidity	5% to 90%	
consumption	Average power consumption <300mW	
Host dimensions	70*40*17mm	
Host weight	About 100g	
Package size		
Battery protection	Against the power supply reverse connection	
band	GSM 850/900/1800/1900MHz	
GPS performance	Receive Channels:50channels;cold start:32S;warm start:32S Hot start:1S;GPS sensitivity:-160dbm;GPS accuracy:<10m	

1.4 Major function

Serial No.	function	explain
1.	Tracking	Tracking in real time ,speed and mileage statistics,Are a monitoring etc.
2.	Abnormal state prompt	Includes device breakdown ,cut power cable ,geo-fence etc .
3.	Configured remotely	Configure kinds of parameters,including IP,Center number,monitor parameters etc.
4.	Control remotely	Stop engine remotely via platform or sms
5.	SMS setting	Could use mobile phone to setup GPS
6.	Cut power line alarm	thermostability backup battery ,will be triggered while the power line is removed
7.	Dual mode positioning	When GPS signal is poor ,the device will switch to base station location
8.	Movement alarm	When device connect with ACC,after ACC is off,the device will enter fortification status to achieve movement alarm.
9.	Install easily	Internal GSM/GPS antenna,it is easy to install

1.5 device status indicator

1.5.1 Red LED

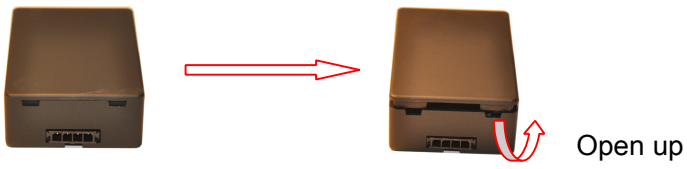
LED Status	Meaning
blink fast	GPRS signal searching…
blinking slow	GPRS was connecting normal
Off	Power supply or signal unnormal

1.5.2 Green LED

LED Status	Meaning
on	GPS accurate positioning
Blinking slow	base station location
Off	Not locate

2. Installation

2.1 Open Pictures



Bottom Open from the gaps

2.2 Installation preparation

Before installation,open the box and check if all accessories are full .

Before installation,please be ready SIM card and make sure it has opened GPRS function .then open it and insert simcard as above picture showing.

Note： make sure insert SIM card well in device;

make sure SIM card's function is normal .

Make sure SIM card have fund enough

2.3 Installation suggestion

You'd better asking some professional ones to install it .

2．4 power cable

color	Meaning
Red	Positive "+" 9V-36V
Black	Negative "-"
While	ACC
Yellow	Stop engine (connect with yellow of relay)

2.5 Installation

a. Open the device bottom ;

b. Insert SIM card ;

c. Connect device with power cable well .

after you connect device with power ,the red LED will blink ,then you could use SMS to configure device .

a. Set SIM No.(eg : SIM No. in gps is18977776666 , then send command:*77*118977776666#)

b. Set IP port (eg: IP:121.37.62,port:9881,then send command: *88*1058061155150*8881#)；

c. Set APN：(eg. APN is internet ,then send command : *88*2internet#)

After you send all commands as above ,and all of them rely setting ok ,then you could

see datas on the platform well.

Two indicator LED status as below:

a. Red LED: blinking fast (is connecting GPRS) ; blinking slow (device have configured successfully with the server)

b. Green LED: LED off (not locate);

Blinking slow(Base station positioning);

Stable on(GPS accurate positioning)

c. After installation

When two indicator status are in normal status (red LED blinking slow ,green LED is on all the time),install backup battery well, install the bottom cover well .then hidden the device well in vehicles/motorcycle .make sure there is no metal on the front device (front side: there is one logo on that side),and make it far away from other electronic equipment. Make sure that device could accept GPS signal well .

3. MINI function

A. Basic function-tracking location

3.1 Tracking location

Including returning timing, distance return, blind data storage, speed and mileage statistics, regional monitoring system positioning command, the terminal returns contain longitude, latitude, speed, direction, status information and data.

3.2 Timing monitor

Car GPS terminal can be set to a certain time or a time period or at a certain time interval, the position of the vehicle status information is sent to the monitoring center.

3.3 Dual mode positioning

Device has two positioning mode, GPS positioning and base station positioning. When GPS signal is good, can accurate positioning;when the GPS signal is poor,it will be switch to a base station location, to ensure the secure region can be located.

B. Basic function-alarm

3.4 Emergency alarm

Including host down,cut power alarm,geofence alarm etc.

3.5 Overspeed alarm

When a vehicle exceeds the speed set by the monitoring center, the car terminal will be

informed to the monitoring center.

3.6 Cut power line alarm

When the power line has cut,the backup battery will supply the power to devices and they will continue working ,and it will send "cut power alarm" to the tracking system.

3.7 Geo-fence alarm (in/out geo-fence)

System support to set the polygon area, vehicles into the community or out of bounds, the vehicle terminal on the alarm to the monitoring center to send a cross-border information.

C. Basic function-smart function

3.8 heartbeat return

GPS terminal can be set to a timer heartbeat return time, if no other information is sent during this period, send a heartbeat returns to the monitoring center, to maintain the terminal real-time online.

3.9 Intelligent Self-Test

Vehicle terminal can be self-diagnosis, in the event of failure, failure notification will be sent to the center, such as handles, GPS, GSM, and can automatically take the relevant measures. The monitoring center can also query the terminal the current model, version, configuration, run the state, the device features and peripheral models, issued recovery commands.

3.10 Remote lock the car

When the device receive a command of stop engine ,device will stop the car at once .

3.11 Storage (blind data storage)

When the vehicles move into blind area,the devices will save positioning information,after they move out the blind area,it will send the locations datas to system。

3.12 Mileage statistics

Devices will send the mileage data to the system ,this data could be controlled by system if you want to send this data or not .

3.13 Configured remotely

Configure kinds of parameters,including IP,Center number,monitor parameters etc.

3.14 SMS operation

The user could use SMS to configure and check the status of devices .

3.15 Checking vehicles location by SMS.

Devices could set user cell phone number ,to use these numbers to check locations of vehicles remotely . When vehicles are in un-normal status ,the devices will send SMS to

inform user through this cell phone number .

3.16 Auto fortify , movement alarm

When engine is off , the device will enter fortification status ,if any towing or movement ,then the device will be triggered alarm automatically .

4. Standard packing

1). WT0 GPS device

2). Power cables

5. Optional accessories

1). Backup battery

2). Relay

6. Commands for setup

Application / FUNCTION	SMS Command	SMSREPLY	example
set ACC on/off alarm	*00*4AB#	Setting ok	A = 0 when engine on,will not have SMS alarm; A = 1 when engine on,will have sms alarm; B = 0 when engine off ,will not have sms alarm; B = 1 when engine off ,will have sms alarm;
check firmware version of terminal	*11*0#	Setting ok	
Check center number	*11*1#	Setting ok	including two center number
Get Google link SMS location	*11*3#	Setting ok	
get street address location	*66*4#		This command need to be registered mobile phone number on platform in advance
Check terminal status	*11*4#	Setting ok	Online indication online； Offline indicate off line ； Link indicate is connecting server IP ,port,apn hybrid and local number or terminal ID follow behind status
Check SMS notification mobile phone NO.	*11*7#		

stop oil / elec.	*22*2#		
supply oil / elec.	*22*3#		
reboot terminal	*22*4#		
Check over-speed warning threshold, over-speed threshold alarm threshold, low speed, low speed alarm duration	*33*7#		search result：50km/h，60km/h，10km/h,30s over-speed warning threshold：50km/h Over- Speed threshold ：60km/h Low-speed threshold :10km/h Low-speed time :30s
Set the speed thresholds	*44*1vvv#		
Set the threshold at low speed and low speed duration	*44*2vvv*ttttt#		
set main center mobile phone number	*77*0number#		*77*0123456# main center mobile phone number：123456
Setting local SIM Number	*77*1number#		*77*115088886666# local SIM Number：15088886666
setting sub-center number	*77*2number#		*77*2123456# sub-center number：123456
Setting SMS notification mobile phone No. 1	*77*4number#		*77*415088886666# mobile phone number 1 ：15088886666
Setting SMS notification mobile phone No. 2	*77*5number#		*77*515088886666# mobile phone number 2 ：15088886666
setting IP and port	*88*1IP*port#		*88*1121037062142*9881# IP:121.37.62142 Port:9881 if IP is less than 3 digital number ,then add 0 in front of them
Set APN	*88*2APN#		*88*2CMNET# APN:CMNET

Attention :

If you have already setup one command ,but you want to cancel it ,then do the commands like below example :

For example command : *77*0number# ,eg.

1. *77*013166667777# , then cancel command is *77*0#
2. *77*413166667777#, then cancel command is *77*4#

Commands for setup online platform as following :

1. *88*1121037062142*9881# (IP:121.37.62142 Port:9881)
2. *88*2internet#
3. *77*113166667777#